



World of School

www.pelikan.com/kids



Edition
IV



Material
for students
8 years and
older

The past,
the present and the
future of work life
and dream jobs

for
students
only

Discover your future

- Time travel of mankind: 240 years ago – Steam engines take over work
- My interests: The world of tomorrow
- You and Me: Recognizing the connection between the living environment and a dream job



Discover your future

Each school day is a small step
to your dream job

Dear student,

You have probably already thought about what you want to be one day: Maybe a football player, a policeman, or a doctor? A pilot, a mechanic, or a teacher?

Whatever occupation you choose,, Pelikan would like to assist you in finding your dream job.

In learning how jobs have developed,, you will gain a better understanding of your own interests and skills, and you will realize the impact machines can have on mankind. Also, by exploring workplaces, we will help you find out, what jobs might interest you.










Your talents can already help you now in finding a job later on. For example, you should be interested in technical processes, if you want to fix cars one day; or you should keep in shape, if you want to become a football player. But apart from defining your talents, there are many other interesting ways to find your dream job.

We wish you a lot of fun and success on your journey of finding your very own dream job!

Your Pelikan-Team




General Overview

| | | | |
|---|--|---|--|
|  | <i>Informative text</i> |  | <i>Do crafts</i> |
|  | <i>Do this exercise</i> |  | <i>I like it</i> |
|  | <i>Line to write on</i> |  | <i>I don't like it</i> |
|  | <i>Talk about a topic – Exchange ideas</i> |  | Results <i>Present the results to your class/group</i> |
|  | <i>Think about a topic – Reflect</i> | | |

Time Travel of Mankind

Topics that you will find here:

- 240 years ago:
 - Steam engines take over work




Time Travel of Mankind

My Interests

Topics that you will find here:

- The world of tomorrow




My Interests

You and Me

Topics that you will find here:

- Recognizing the connection between the living environment and a dream job
- Factory tour



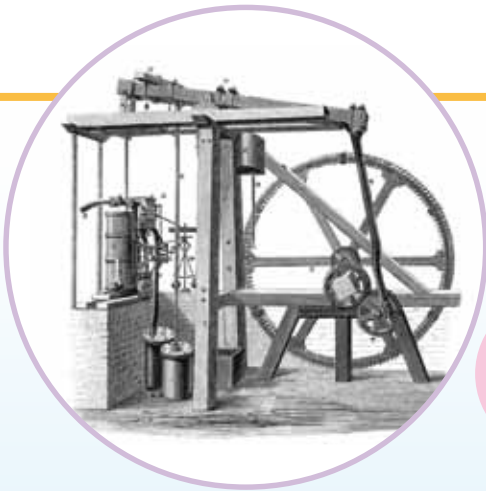
You and Me

Time Travel of Mankind

240 years ago - Steam engines take over work



In 1764, James Watt was employed at a university. There he was asked to fix a steam-driven machine. At that time, such machines were used to pump out water from mines. Not only did Watt find out what was broken. He added more parts to it and built the machine together totally different. The steam engine he had created led to a profound step in the development of mankind and their professions.

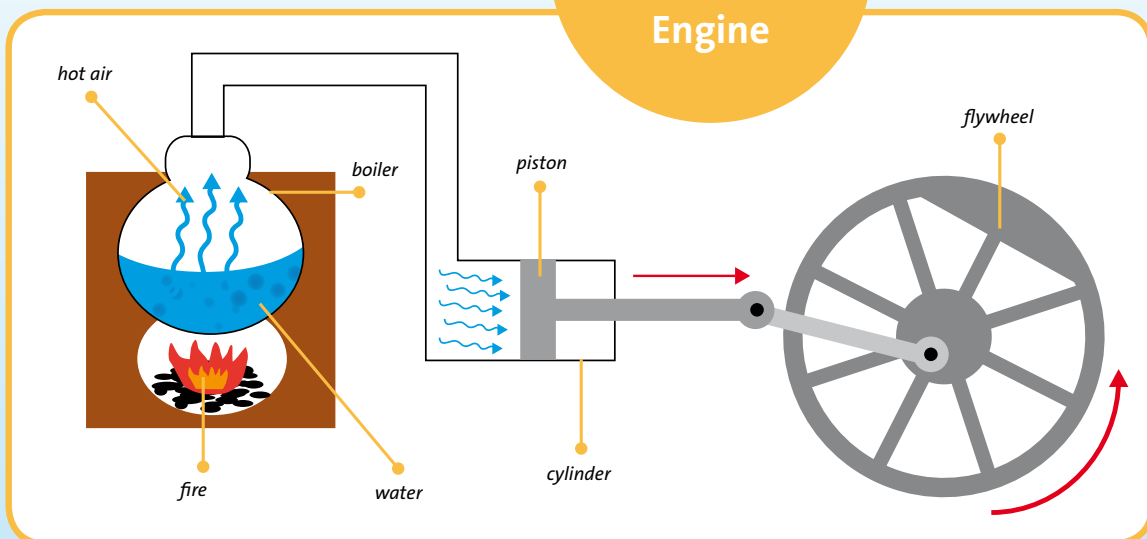


Usage



With its help it was possible to run several different tools that used to be driven by manpower, animals, water or even wind, all at the same time. Regardless of the weather or muscle power, only hot steam was needed for the functioning of drills and grinders, wood saws, corn mills or weaving machines. Products that used to be built in small craft businesses or even at home could now be produced on a massive scale, fast and low-priced, in large production sites and factories.

It owes its name to hot air: The Steam Engine



Time Travel of Mankind

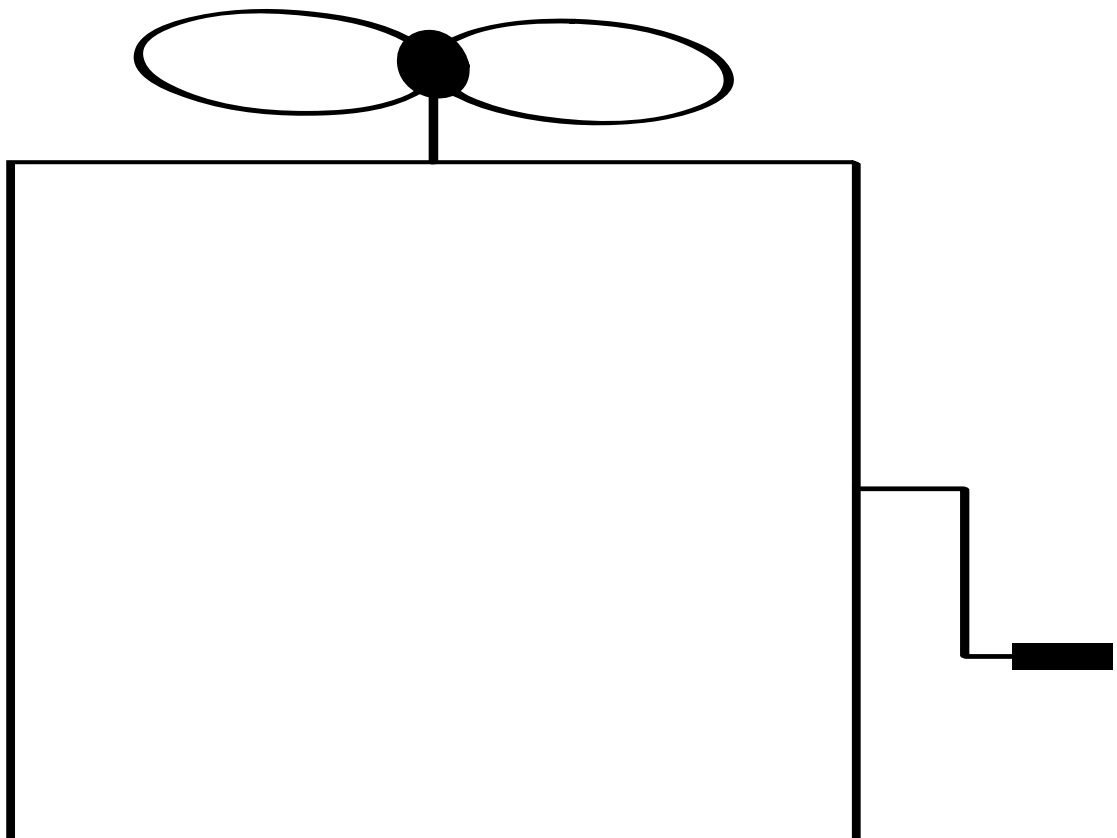
James Watt solved a problem by improving the idea of an original machine.
Now, your help is wanted to make this device work.

Do this exercise



This wind machine is broken. The propeller on the top is supposed to move when the crank on the righthand side is turned. Help us and complete the drawing with your idea on how the machine should look inside to make it produce wind.

Invention wanted!



Time Travel of Mankind

Industrial Revolution



With the beginning of the steam age many changes came to the people. That is why this age has been named 'Industrial Revolution'. The people no longer worked at home or in small businesses. They were needed in huge machine halls. More and more workers began to settle close-by, which is how entire cities emerged around factories. Many jobs were made automatic by steam engines. As a consequence, a lot of professions were no longer needed. New jobs were created, like the engineer, the mechanical engineer and the locksmith. Some craftsman trades, such as weaving, spinning and the trade of the blacksmith disappeared or developed further.

These thoughts might help you:

The peoples' work location changed.

The professions changed.

The beginning of the machine age is known as _____



Describe the great changes that the people experienced at that time:



The World of Tomorrow



The world is changing and with it the demands on everyone. With the invention of the automobile 100 years ago, it became necessary to train mechanics that were able to do the repairs.

At that time, Medicine was also greatly influenced, although it was rather by accident that penicillin, an antibiotic that fights bacteria in the human body, was discovered. Many thousands of lives have already been saved by it.

Our knowledge is enriched by science and technological development on a regular base, for example with the development of the internet.

It also clearly shows how inventions and discoveries have greatly influenced our school subjects, vocational trainings and workplaces. Nobody can foresee what the profession of a mechanic or a doctor will look like in ten years from now. But what we can do is to imagine what their future may be like, whereby it has proven helpful to know more about the past!





From Healer to Medical Specialist



Up to the 17th century, a person's heart beat (the pulse) and the color of his/her urine was commonly used to diagnose diseases. A lot of times, the people died anyway. Over time, particular instructions were defined so that doctors were able to recognize diseases better. In the past, a lot of times, doctors had to treat a range of different diseases that we have specialists for today. The discovery of penicillin improved the doctors' treatment options enormously: It was then that deadly inflammations and diseases were able to be treated.



Then
and
now

Meanwhile, today's doctors have laboratories that they can use to examine blood and other substances. Diseases are not treated with self-prepared ointments anymore, but with pills and tinctures. With the help of x-ray machines and computers, doctors can look at a person from the inside and the outside, too, without having to hurt people.





From Screwer to Automotive Mechatronics Engineer



With the beginning of automobile production over 100 years ago, cars had to be repaired. Back then, it was enough to have a good technical knowhow and some tools to fix them, compared to the skills that are needed today. There were no electricians in the cars, only screws, nuts and many other metal pieces. Then technology in cars became more and more expansive and complicated. Meanwhile, the electricians inside cars have become so vast that professionals call it a 'cable harness'. The motor is regulated by a car computer that monitors the tire pressure or controls the light. It takes several different people to fix a modern car. That is why there are so many different professions. There are some, for example, who are in charge of the body of the car, and others are responsible for the motor. Automotive mechatronics engineers take care of the electricians of a car.

Today, it's not just a plain switch that needs replacement - entire components are exchanged. Another computer is used to find out what is broken. This computer is operated by again a different specialist. There are only very few parts that can be fixed by oneself in a modern car, which makes the job of an automotive mechatronics engineer more and more important¹.

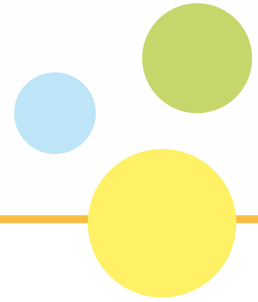
Then
and
now



¹Vgl. www.wikipedia.de



Personal Experiences



You probably already have been to a garage with your mom or dad or have had to go to the doctor. Try to remember what it was like and write down your experiences:

My visit at the:

- Garage
- Doctor's office

This is what I have experienced, this is what I remember:

You can add a picture to your description:

A large rectangular box with a dotted orange border, intended for drawing a picture related to the description.



Time Travel



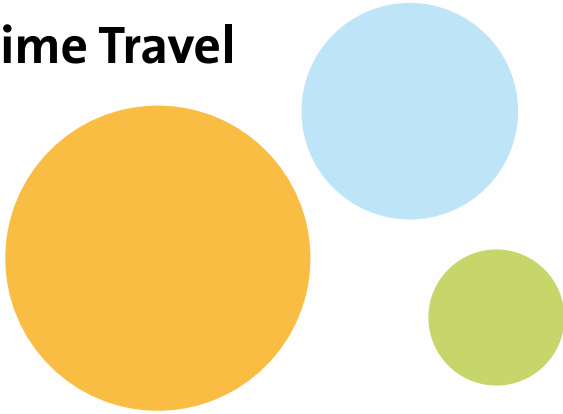
Almost every profession has changed strongly, in the recent years, and the trend will continue. In ten years from now, the job of an automotive mechatronics engineer or a doctor might be a lot different from what it is today. You might not ever be able to experience it again the way it is now. But what will future professions be like?

We are going to travel through time to see what the professions of the past looked like and how they might change in the future. So, buckle up, please - here we go!





Time Travel



Writing or Drawing Exercise



You are now traveling through time!
Think of a profession and imagine how it might change in 10 years from now.

- What is this profession like today?
- What are the work steps and how are they carried out?
- What could these tasks, work steps and supplies look like in 10 years?

Describe your chosen profession or draw a picture of it, the way it is experienced today and how you imagine it to be in the future.

Profession today: _____



Result

In the future, the work of a _____ might be like this:



Time Travel



Explorer's Question

What was the job like in the past? Did your chosen profession have the same job title? Has it developed from another profession? Describe or draw your profession the way it has been in the past.

Profession _____ in the past:

Presentation in Small Groups



Result

When you are finished, you can compare the paintings or drawings in small groups.

Talk about it:

- How have the professions changed during your time travel?
- Which machines could there be in the future?
- What kind of tools or supplies will there be?
- What kind of work will the people have to do in the particular professions?



Recognizing the connection between the living environment and a dream job



Getting up early, working at night, lifting heavy things or walking far distances: Some things that sound like hard work for the ones are the dream jobs of others!

Whether it is a truck driver, a gas station operator or a mailman you choose to be - people tend to choose professions that match their talents. After all, everyone wants to be able to work there for a long time and still be happy. But how do you find your dream job?

One possibility is to take a guided tour through a company. This way, you will get to know more about a particular job and you can compare what you've seen with your imagination of it. This way, you can find out if it could be your dream job.



Your dream job





Factory Tour



Find a company

To get to know a particular workplace, you will have to start by getting in touch with a company. Maybe you know somebody in your family circle or one of your friends, who can take you with to work and who can answer your questions about the job. Ask an adult to help you to look for a company you can visit. Maybe there are shops or workplaces nearby that interest you and where you can ask. You can also use a telephone book to reach a particular company or store.

This way, you can easily make an appointment for a tour. Other options to find out more about a company are to attend open house events, to visit the company's website or to write them a letter.

In some countries, there is a special day, on which children can visit their mom or dad at work and look over their shoulder to get to know more about their jobs from close up. Ask your parents if this is an option for you!

Now you are well-prepared to discover your future!



Preparation

It is exciting to visit a company or to go see other people at work. That's why it is good to think of some questions beforehand that you might not come up with on the spot. We have thought of some questions for you, to help you compare the tour with your imagination better. You can either use these questions the way they are, or you can change them or add something to them, if you like.

You should collect more information about the company, so that you can remember your questions better. Take a camera with you, or why not draw your own pictures. Maybe there are brochures, information material or product samples that you can take home with you. Ask when you are there.





Questionnaire Factory Tour

| General questions | Answer |
|---|-------------|
| How long has this company been in business? | <hr/> <hr/> |
| Are there more branches or affiliates? | <hr/> <hr/> |
| What is produced or what service is offered here? | <hr/> <hr/> |

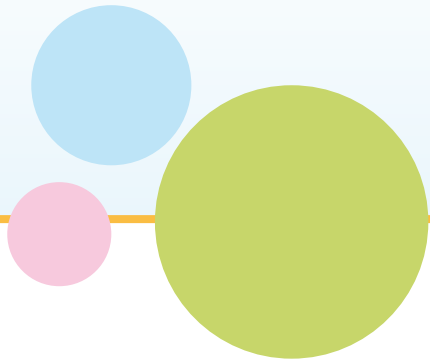
| About the job | Answer |
|--|-------------|
| What is the exact job title? | <hr/> <hr/> |
| Do you need any special skills for it? | <hr/> <hr/> |
| Are there any physical requirements I have to meet, e. g. not be afraid of heights, or other things? | <hr/> <hr/> |
| Do the workers have to wear a special uniform? | <hr/> <hr/> |
| Are there any particular stresses and strains at this workplace? (e. g. noise, hard work or dirt) | <hr/> <hr/> |
| What are the working hours? | <hr/> <hr/> |

 You and Me

**Questionnaire
Factory Tour**



| Requirements | Answer |
|---|-------------|
| Which school grades are important? | <hr/> <hr/> |
| How long does the vocational training take? | <hr/> <hr/> |
| Will I need to go to university/ college for this profession? What will I have to study? | <hr/> <hr/> |
| Is there anything I should be particularly interested in to be happy in this job for a long time? | <hr/> <hr/> |

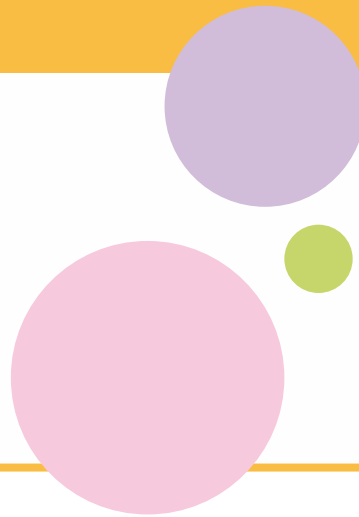


Extra space for additional questions:





Questionnaire Career Exploration



Tour at: _____

Chosen profession: _____

The company from the outside: _____

The visited workplace: _____

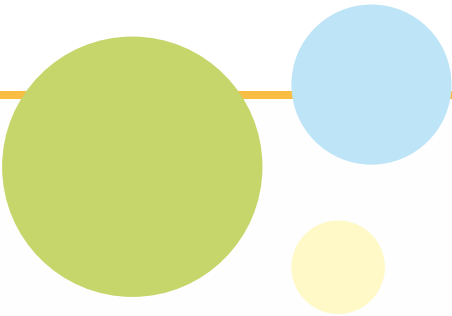
Products or services offered:

My evaluation of the job:

You and Me




I have toured a company or got to know a workplace better after a conversation. Now, thinking about my future, I ask myself if this could be my dream job. For this matter, I will now try to compare the gathered information with my imagination of the job.



These thoughts will help:



- Do I fulfill the special requirements for this job?
- Am I ready to develop the interests needed for this job?
- Do I like wearing uniforms?
- Do I like the work hours?
- Are my grades good enough for my dream job?



Result

It is my dream job, because... _____

It is not my dream job, because... _____

Extra space for my own thoughts:

